

Amendment and Response
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Amendments to the Claims:

Please amend the claims to read as follows. This listing of claims replaces all prior versions and listings of claims in the application:

1. (Withdrawn) A micro-pattern embedded optical film that supports growth, identification and measurement of cells.
2. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains straight and curved geometric shapes.
3. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains numbers.
4. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains letters.
5. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern has dimensions that range from sub-micron to 5 millimeters.
6. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains a coordinate system wherein each location on said optical film may be identified by a set of numbers or letters or combination of numbers and letters.
7. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains a first side and a second side, wherein said first side contains embedded micro-patterns, wherein said second side contains no micro-pattern.
8. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains a first side and a second side, wherein said first side and said second side both contain embedded micro-patterns.
9. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said optical film has a plastic substrate.

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10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Currently amended) A device for growth, identification and measurement of cells comprising:

a micro-pattern embedded plastic optical film having a plurality of regions formed by contrast features, each of said regions having a unique identifier and each of said contrast features observable during microscopic viewing; and

a supporting component bonded to said micro-pattern embedded plastic optical film, ~~said supporting component and said micro-pattern embedded plastic optical film~~ defining to form a volume for holding a liquid having said cells.

15. (Currently amended) The apparatus device as defined in claim 14, ~~wherein said micro-pattern embedded optical film further comprises a plastic substrate and wherein said micro-pattern embedded optical film is disposed on said plastic substrate~~ further comprising a base film.

16. (Currently amended) The apparatus device as defined in claim 14, wherein said micro-pattern embedded optical film and said supporting component~~[[s]]~~ are bonded by an adhesive layer.

17. (Currently amended) The apparatus device as defined in claim 16, wherein said adhesive layer comprises a pressure sensitive adhesive.

18. (Currently amended) The apparatus device as defined in claim 16, wherein said adhesive layer comprises an energy curable adhesive.

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19. (Previously presented) The device as defined in claim 14, wherein said supporting component has a shape defining a plurality of wells each adapted for performing an assay.
20. (Canceled)
21. (Previously presented) The device as defined in claim 14 wherein the contrast features comprise recessed areas having a depth.
22. (Previously presented) The device as defined in claim 14 wherein the contrast features comprise protrusions having a height.
23. (New) The device as defined in claim 15 wherein said base film is a plastic substrate.
24. (New) The device as defined in claim 23 wherein said plastic substrate is a flexible substrate.
25. (New) A device for growth, identification and measurement of cells comprising:

a micro-pattern embedded plastic optical film having a plurality of regions formed by contrast features, each of said regions having a unique identifier; and

at least one supporting component attached to said micro-pattern embedded plastic optical film to form a plurality of assay locations for holding liquid having said cells, wherein said cells and said contrast features are observable during microscopic viewing without refocusing.
26. (New) The device as defined in claim 25 wherein said at least one supporting component is formed on said micro-pattern embedded plastic optical film using a material deposition technique.
27. (New) The device as defined in claim 25 wherein said at least one supporting component is bonded to said micro-pattern embedded plastic optical film.

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28. (New) A micro-pattern embedded plastic optical film having a plurality of regions formed by contrast features, each of said regions having a unique identifier, said micro-pattern embedded plastic optical film adapted for attachment to at least one supporting component to form at least one volume for holding a liquid having said cells wherein said contrast features and said cells are simultaneously observable during microscopic observation.

29. (New) The micro-pattern embedded plastic optical film as defined in claim 28 wherein said micro-pattern embedded plastic optical film comprises a clear plastic layer and a base layer, said clear plastic layer having said contrast features and said unique identifiers.